



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/901,368	07/09/2001	Nithyalakshmi Sampathkumar	MS180587.1 6483	
27195	7590 02/28/2005		EXAMINER	
AMIN & TUROCY, LLP			HILLERY, NATHAN	
24TH FLOOF	R, NATIONAL CITY C	CENTER		
	INTH STREET		ART UNIT	PAPER NUMBER
CLEVELAND, OH 44114			2176	·-

DATE MAILED: 02/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applicatio	n No.	Applicant(s)			
	09/901,36		SAMPATHKUMAR ET AL.			
Office Action Summary	Examiner		Art Unit			
	Nathan Hi		2176			
The MAILING DATE of this commun		·	rrespondence address			
• •	OD DEDIVIC SET TO) EXDIDE 3 MONTU/C	S) FROM			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) fil	ed on <u>23 November 20</u>	<u>04</u> .				
2a) This action is FINAL .						
3) Since this application is in condition						
closed in accordance with the pract	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) 20-37 is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) ☒ Claim(s) 1-19 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the specification is objected to by the specific speci	f is/are: a)⊠ accepted ection to the drawing(s) be getting the correction is require	e held in abeyance. See d if the drawing(s) is obje	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (3) ☑ Information Disclosure Statement(s) (PTO-1449 of Paper No(s)/Mail Date 9/2/03; 1/10/02.		4) Interview Summary (Paper No(s)/Mail Dat 5) Notice of Informal Pa 6) Other:				

Application/Control Number: 09/901,368 Page 2

Art Unit: 2176

DETAILED ACTION

1. This action is responsive to communications: Restriction Election filed on 11/23/04.

Claims 1 – 19 are pending in the case as a result of an election by applicant.
 Claims 1 and 19 are independent.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over ADO.NET (It should be noted that while the reference cited and provided is in a foreign language, the Office is relying on the source code disclosed within the reference, which is substantially written in English; the Office is acquiring an English translation in the interim) and further in view of Omoigui (US 20030126136 A1).
- 5. Regarding independent claim 1, ADO.NET discloses a transformer adapted to transform one or more input XML items in a first format to one or more transformed XML items in one or more second formats (p 4). ADO.NET does not explicitly disclose an output... However, Omoigui teaches that the Results Browser is responsible for displaying the results of queries, and the information on any local resources opened. The Results Browser preferably obtains one or more XML files from the Query Manager and merges these into a single XML file that represents a list of

Application/Control Number: 09/901,368

Page 3

Art Unit: 2176

objects. The list itself may be filtered or sorted as an initial step. The list as a structure is transformed by a special class of Skin (an XSLT transform sheet, possibly including some script) that handles lists. The list-Skin creates the primary DHTML (or the like) structure, e.g., a list, a table or perhaps a timed sequence. Object Skins manage the individual DHTML items that present the information for each object instance. List-Skins may handle the dispatch of individual object Skins (mapping object class to Skin), but the Results Brower preferably provides default mappings of class to Skin for simplicity (Column 40, paragraph 0759), which provide an output manager adapted to facilitate selectively pulling and/or pushing a subset of the transformed XML items. It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of ADO.NET with the invention of Omoigui because such a combination would provide the readers of ADO.NET with an integrated and seamless implementation framework and resulting medium for knowledge retrieval, management, delivery and presentation (Column 5, paragraph 0071).

6. Regarding dependent claim 2, ADO.NET does not explicitly disclose action frame stack. However, Omoigui teaches that the preferred embodiment of the Information Nervous System provides support for all aspects of security: authentication, authorization, auditing, data privacy, data integrity, availability, and non-repudiation.

This is accomplished by employing standards such as WS-Security, which provides a platform for security with XML Web Service applications. Security is preferably handled at the protocol layer via security standards in the XML Web Service protocol stack. This includes encrypting method calls from clients (semantic browsers) to servers

Page 4

(Agencies), support for digital signatures, authenticating the calling user before granting access to an Agency's Semantic Network and XML Web Service methods, etc. (paragraph 0367), which provide that the transformer comprises an action frame stack adapted to hold one or more actions, an event state machine adapted to track state associated with transforming the one or more XML items and an event processor adapted to receive events generated in processing the one or more actions stored in the action frame stack.

Regarding dependent claim 3, ADO.NET does not explicitly disclose compiler. 7. However, Omoigui teaches that the Presenter includes an SQML interpreter. When the Presenter opens an SQML file, it preferably interprets it by first parsing it, validating it, creating a master entry table, and then executing the entries in the entry table. Effectively, it "compiles" the SQML file before "executing" it, not unlike how a language compiler compiles source code into an object module before it is then linked with other modules and executed. In the case of the SQML interpreter, this process optionally involves loading other SQML files via references. This process is preferably not cyclical. The client uses the XSLT templates in the "<skin>;" tags (if available and if not overridden by default or Agent Skins) to display the information for each declared object type. Any returned objects that do not have a declared Skin are displayed with the default Skin of the object type or, in the case of a single Agent entry, that of the Agent (if one is specified) (paragraph 0971), which provide that a compiler adapted to compile one or more style sheets and produce one or more actions that can be employed by the transformer in processing associated with transforming the one or more

Application/Control Number: 09/901,368

Art Unit: 2176

input XML items. It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of ADO.NET with the invention of Omoigui because such a combination would provide the readers of ADO.NET with an integrated and seamless implementation framework and resulting medium for knowledge retrieval, management, delivery and presentation (Column 5, paragraph 0071).

Page 5

- 8. Regarding dependent claim 4, ADO.NET does not explicitly disclose compiler. However, Omoigui teaches that in addition, SQML includes tags that enable semantic filtering (via custom links and predicates) which indicate how data is to be queried and filtered from the resources, and arguments that indicate how the resources are to be queried and how the results are to be filtered. In particular, the arguments can include references to local or remote context. The context arguments are then resolved by the client-side SQP at run-time to XML metadata (paragraph 0274), which provide that the compiler is further adapted to resolve one or more external references in the one or more style sheets. It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of ADO.NET with the invention of Omoigui because such a combination would provide the readers of ADO.NET with an integrated and seamless implementation framework and resulting medium for knowledge retrieval, management, delivery and presentation (Column 5, paragraph 0071).
- 9. Regarding dependent claim 5, ADO.NET disclose the input XML items are input from one or more data stores (p 5 upper right hand corner).

Application/Control Number: 09/901,368 Page 6

Art Unit: 2176

- 10. Regarding dependent claims 6 11, ADO NET disclose an input abstracter adapted to expose data stored in the one or more data stores in a common representation, the input abstractor is further adapted to abstract a reference to a node within an Xpath document, the input abstractor is further adapted to expose the data stored in the one or more data stores as a data model and infoset, the input abstractor is further adapted to provide a cursor model over data stored in a data store to facilitate presenting a stream of nodes to the transformer, the input abstractor is further adapted to provide a virtual node that can be employed to traverse the stream of nodes, and the input abstractor is an XpathNavigator (p 19).
- 11. Regarding dependent claims 12 14, ADO.NET disclose a node selection abstractor adapted to dynamically construct a subset of input XML items from a set of input XML items, where the subset of input XML items are responsive to a query, the node selection abstractor is further adapted to facilitate navigating the subset of input XML items, and the node selection abstractor is an XpathNodelterator (pp 18 19).
- 12. Regarding dependent claims 15 18, ADO.NET disclose an optimized data store adapted to store one or more XML items in a manner that facilitates minimizing processing associated with constructing the subset of input XML items via a query, the optimized data store stores data in a data representation format that facilitates optimizing an Xpath query, the data representation format comprises expanded XML entities, deleted XML declarations and DOM model data

Art Unit: 2176

converted to Xpath model data, and the optimized data store is an XpathDocument (pp 18 – 19).

13. Regarding independent claim 19, the claim incorporates substantially similar subject matt as claims 1, 3 - 6, and 12, and is rejected along the same rationale.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nathan Hillery whose telephone number is (571) 272-4091. The examiner can normally be reached on M - F, 10:30 a.m. - 7:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H. Feild can be reached on (571) 272-4090. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

NH

SUPERVISORY PATENT EXAMINER

Page 7